



Lancaster Laboratories  
Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

# Analysis Report

Partial Report

Sample Description: **Ex. 6 - Personal Privacy**

Tetra Tech, Inc.  
ELLE Sample #:  
ELLE Group #:  
Matrix: Water

Ex. 6 - Personal Privacy

Project Name: **Wolverine World Wide Tannery**

Submittal Date/Time: 12/29/2017 10:00

Collection Date/Time: 12/27/2017 14:20

SDG#: **Ex. 6 - Personal Privacy**

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1</b>	<b>ng/l</b>	<b>ng/l</b>	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

The recovery for PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered preliminary as this sample will be re-extracted.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18004006	01/08/2018 07:47	Marissa C Drexinger	1

Sample Description: **Ex. 6 - Personal Privacy**

Tetra Tech, Inc.  
ELLE Sample #:  
ELLE Group #:  
Matrix: Water

Ex. 6 - Personal Privacy

Project Name: **Wolverine World Wide Tannery**

Submittal Date/Time: 12/29/2017 10:00

Collection Date/Time: 12/27/2017 14:30

SDG#: **Ex. 6 - Personal Privacy**

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1</b>	<b>ng/l</b>	<b>ng/l</b>	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonate	375-73-5	15	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1

Reference ID:  
1891721080118164347



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Collection Date/Time: 12/27/2017 14:30

SDG#: **Ex. 6 - Personal Privacy**

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1</b>	<b>ng/l</b>	<b>ng/l</b>	
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	4 J	2	1
14070	Perfluorohexanesulfonate	355-46-4	5	2	1
14070	Perfluorohexanoic acid	307-24-4	8	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	9	2	1
14070	Perfluorooctanoic acid	335-67-1	14	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

The recovery for PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered preliminary as this sample will be re-extracted.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18004006	01/08/2018 07:58	Marissa C Drexinger	1

Sample Description: **Ex. 6 - Personal Privacy**

Tetra Tech, Inc.  
ELLE Sample #:  
ELLE Group #:  
Matrix: Water

Ex. 6 - Personal Privacy

Project Name: **Wolverine World Wide Tannery**

Submittal Date/Time: 12/29/2017 10:00

Collection Date/Time: 12/27/2017 15:05

SDG#: **Ex. 6 - Personal Privacy**

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1</b>	<b>ng/l</b>	<b>ng/l</b>	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonate	375-73-5	14	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	4 J	2	1
14070	Perfluorohexanesulfonate	355-46-4	4 J	2	1
14070	Perfluorohexanoic acid	307-24-4	8	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	7	2	1

Reference ID:  
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**Ex. 6 - Personal Privacy**

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ELLE Group #:  
Matrix: Water

Ex. 6 - Personal Privacy

Project Name:

**Wolverine World Wide Tannery**

Submittal Date/Time: 12/29/2017 10:00

Collection Date/Time: 12/27/2017 15:05

SDG#: Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1</b>	ng/l	ng/l	
14070	Perfluorooctanoic acid	335-67-1	12	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

The recovery for PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered preliminary as this sample will be re-extracted.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18004006	01/08/2018 08:22	Marissa C Drexinger	1

Sample Description:

**Ex. 6 - Personal Privacy**

Tetra Tech, Inc.  
ELLE Sample #:  
ELLE Group #:  
Matrix: Water

Ex. 6 - Personal Privacy

Project Name:

**Wolverine World Wide Tannery**

Submittal Date/Time: 12/29/2017 10:00

Collection Date/Time: 12/27/2017 15:58

SDG#: Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1</b>	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
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14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

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ELLE Sample #:  
ELLE Group #:  
Matrix: Water

Ex. 6 - Personal Privacy

**Project Name:**

**Wolverine World Wide Tannery**

Submittal Date/Time: 12/29/2017 10:00

Collection Date/Time: 12/27/2017 15:58

SDG#:

Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
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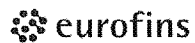
The data reported should be considered preliminary as this sample will be re-extracted.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18004006	01/08/2018 08:45	Marissa C Drexinger	1

Reference ID:  
1891721080118164347

# Environmental Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 10459 Group # 1891721 Sample # 9388930-51

COC # 540832

Client Information				Matrix				Analysis Requested												For Lab Use Only			
Client: <u>MSG / Tetra Tech</u>		Acct. #:		<input type="checkbox"/> Tissue <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:		Preservation Codes												FSC: _____					
Project Name/ #: <u>Wolverine World Wide</u>		PWSID #:				<div> <div>0</div> <div>PEAS</div> </div>												SCR#: _____					
Project Manager: <u>BRENT RITCHIE</u>		P.O. #: <u>217808</u>		Preservation Codes H=HCl      T=Thiosulfate N=HNO <sub>3</sub> B=NaOH S=H <sub>2</sub> SO <sub>4</sub> O=Other														Remarks					
Sampler: <u>BLR / C. Renner</u>		Quote #:		State where samples were collected: <u>MI</u>														For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Sample Identification		Collected		Grab	Composite	Soil	Water	Other:	Total # of Containers	Analysis Requested												For Lab Use Only	
Date	Time	Preservation Codes												FSC: _____									
12/27/17	1015	X							2	X													
1	1015	X							2	X													
1	1015	X							1	X													
1	1050	X							2	X													
1	1110	X							2	X													
1	1110	X							2	X													
1	1110	X							1	X													
1	1210	X							2	X													
1	1210	X							1	X													
1	1315	X							2	X													

<b>Turnaround Time (TAT) Requested</b> (please circle) Standard (Rush TAT is subject to laboratory approval and surcharge.) <u>Rush</u>		Relinquished by <u>[Signature]</u> Date <u>12-27-17</u> Time <u>2000</u>		Received by _____ Date _____ Time _____	
Date results are needed: <u>5-day</u>		Relinquished by _____ Date _____ Time _____		Received by _____ Date _____ Time _____	
E-mail address: <u>britchie@munniksma.com</u>		Relinquished by _____ Date _____ Time _____		Received by _____ Date _____ Time _____	
<b>Data Package Options</b> (circle if required) Type I (EPA Level 3 Equivalent/non-CLP) Type III (Reduced non-CLP) NYSDEC Category A or B		Type VI (Raw Data Only) <u>Level 10</u> NJ DKQP TX TRRP-13 MA MCP CT RCP		Relinquished by Commercial Carrier: UPS _____ FedEx <u>X</u> Other _____	
		EDD Required? <u>Yes</u> No If yes, format: _____		Temperature upon receipt <u>5.6</u> °C	
		Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No (If yes, indicate QC sample and submit triplicate sample volume.)			

Ex. 6 - Personal Privacy

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0216

# Environmental Analysis Request/Chain of Custody



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For Eurofins Lancaster Laboratories Environmental use only

Acct. # 10459 Group # 1891721 Sample # 9388930-51

**COC # 540831**

Client Information				Matrix				Analysis Requested												For Lab Use Only			
Client: <u>MSG/Tetra Tech</u>		Acct. #:		Tissue		Ground		Surface		Preservation Codes												FSC: _____	
Project Name/ID: <u>Wolverine World Wide</u>		PWSID #:		Potable		NPDES		Other:														SCR#: _____	
Project Manager: <u>Brent Ritchie</u>		P.O. #: <u>217808</u>		Soil		Water																Preservation Codes	
Sampler: <u>BLR/G. Reimer</u>		Quote #:		Composite																		H=HCl T=Thiosulfate	
State where samples were collected: <u>MI</u>		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																				N=HNO <sub>3</sub> B=NaOH	
Sample Identification		Collected		Grab		Water																S=H <sub>2</sub> SO <sub>4</sub> O=Other	
		Date Time																				Remarks	
		12/7/17 1315		X						PFAS													
		1330		X																			
		1420		X																			
		1420		X																			
		1430		X																			
		1500		X																			
		1500		X																			
		1505		X																			
		1555		X																			
		1555		X																			

## Ex. 6 - Personal Privacy

**Turnaround Time (TAT) Requested** (please circle)

Standard ☐ **Rush** ☒

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: 5-Day

E-mail address: Britchie@Manniksmithgroup.com

**Data Package Options** (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) ☐ Type VI (Raw Data Only) ☐

Type III (Reduced non-CLP) ☐ **Type IV** ☒ NJ DKQP TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

Relinquished by <u>[Signature]</u>	Date <u>12-27-17</u>	Time <u>2000</u>	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

EDD Required? <b>Yes</b> No If yes, format: _____		Relinquished by Commercial Carrier: UPS _____ FedEx <b>X</b> Other _____	
Site-Specific QC (MS/MSD/Dup)? <b>Yes</b> No (If yes, indicate QC sample and submit triplicate sample volume.)		Temperature upon receipt <u>3.6</u> °C	

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7044 0216

## Environmental Analysis Request/Chain of Custody



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Acct. # 10459 Group # 1891721 Sample # 9388936-51

**COC # 540833**

[illegible]



Lancaster Laboratories  
Environmental

## Sample Administration Receipt Documentation Log

Doc Log ID: 205017



Group Number(s): 1891721

Client: MSG/TETRA TECH

### Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>12/29/2017 10:00</u>
Number of Packages:	<u>4</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>MI</u>		

### Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace $\geq$ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

*Unpacked by Wendy Wakeley (1669) at 11:06 on 12/29/2017*

### Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.6	DT	Wet	Y	Bagged	N
2	DT146	1.3	DT	Wet	Y	Bagged	N
3	DT146	0.4	DT	Wet	Y	Bagged	N
4	DT146	1.0	DT	Wet	Y	Bagged	N





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# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mg</b>	milligram(s)
<b>C</b>	degrees Celsius	<b>mL</b>	milliliter(s)
<b>cfu</b>	colony forming units	<b>MPN</b>	Most Probable Number
<b>CP Units</b>	cobalt-chloroplatinate units	<b>N.D.</b>	non-detect
<b>F</b>	degrees Fahrenheit	<b>ng</b>	nanogram(s)
<b>g</b>	gram(s)	<b>NTU</b>	nephelometric turbidity units
<b>IU</b>	International Units	<b>pg/L</b>	picogram/liter
<b>kg</b>	kilogram(s)	<b>RL</b>	Reporting Limit
<b>L</b>	liter(s)	<b>TNTC</b>	Too Numerous To Count
<b>lb.</b>	pound(s)	<b>µg</b>	microgram(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
<b>meq</b>	milliequivalents	<b>umhos/cm</b>	micromhos/cm
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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## Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.

Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.